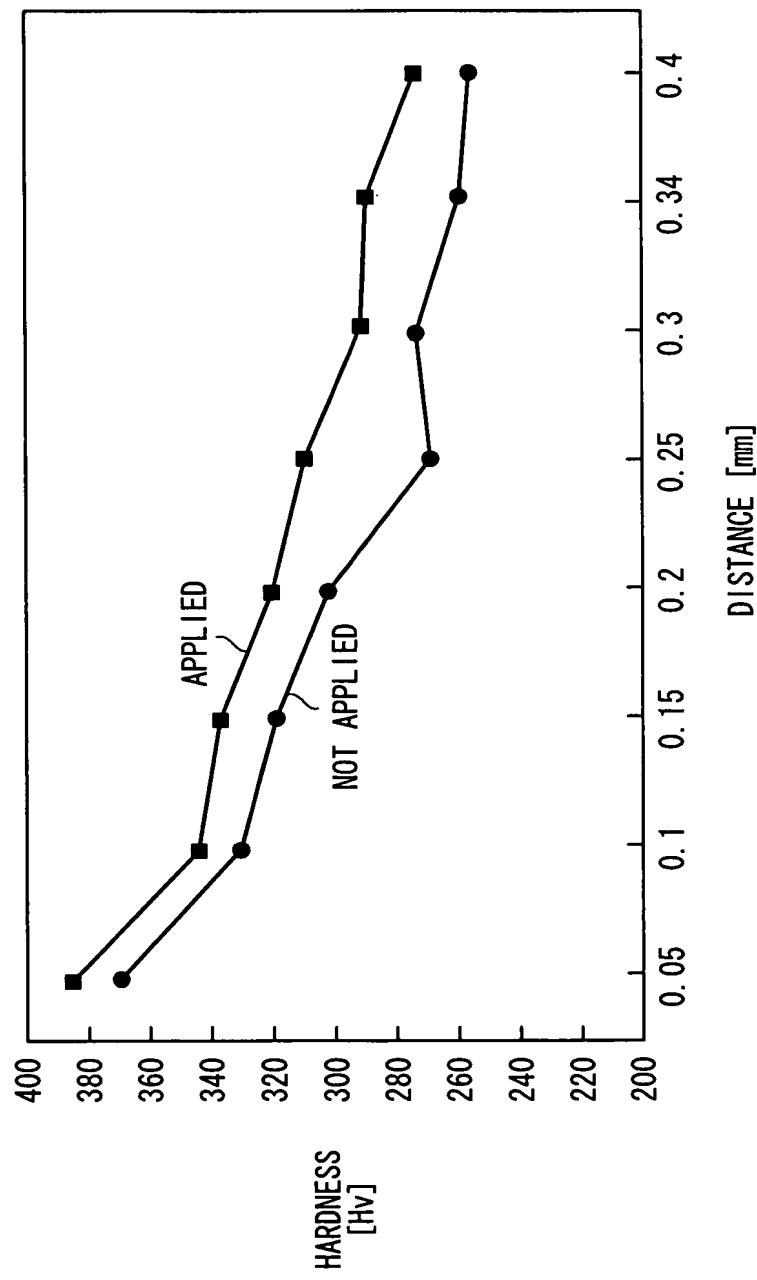


FIG. 1



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FIG. 2

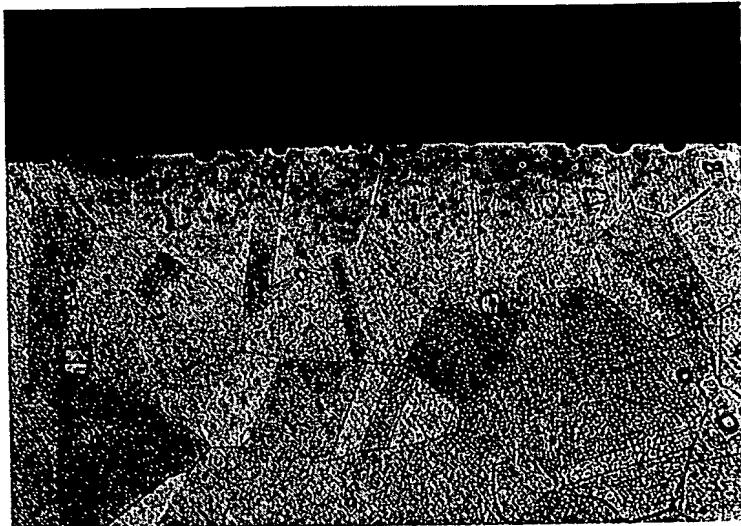


FIG. 3

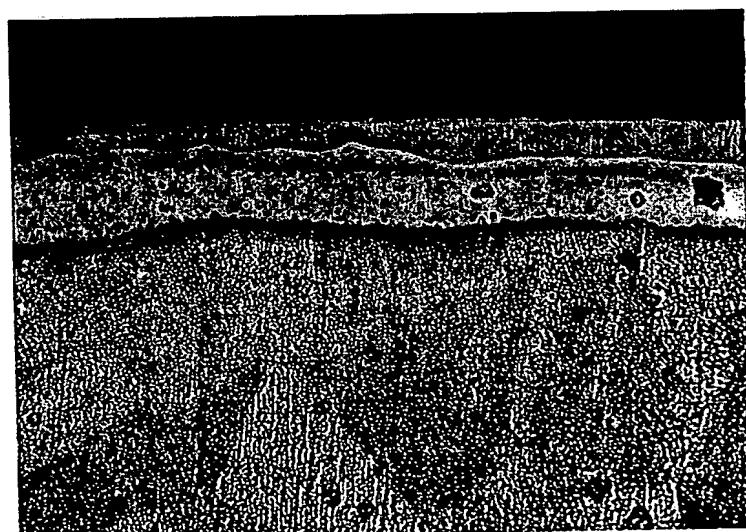


FIG. 4

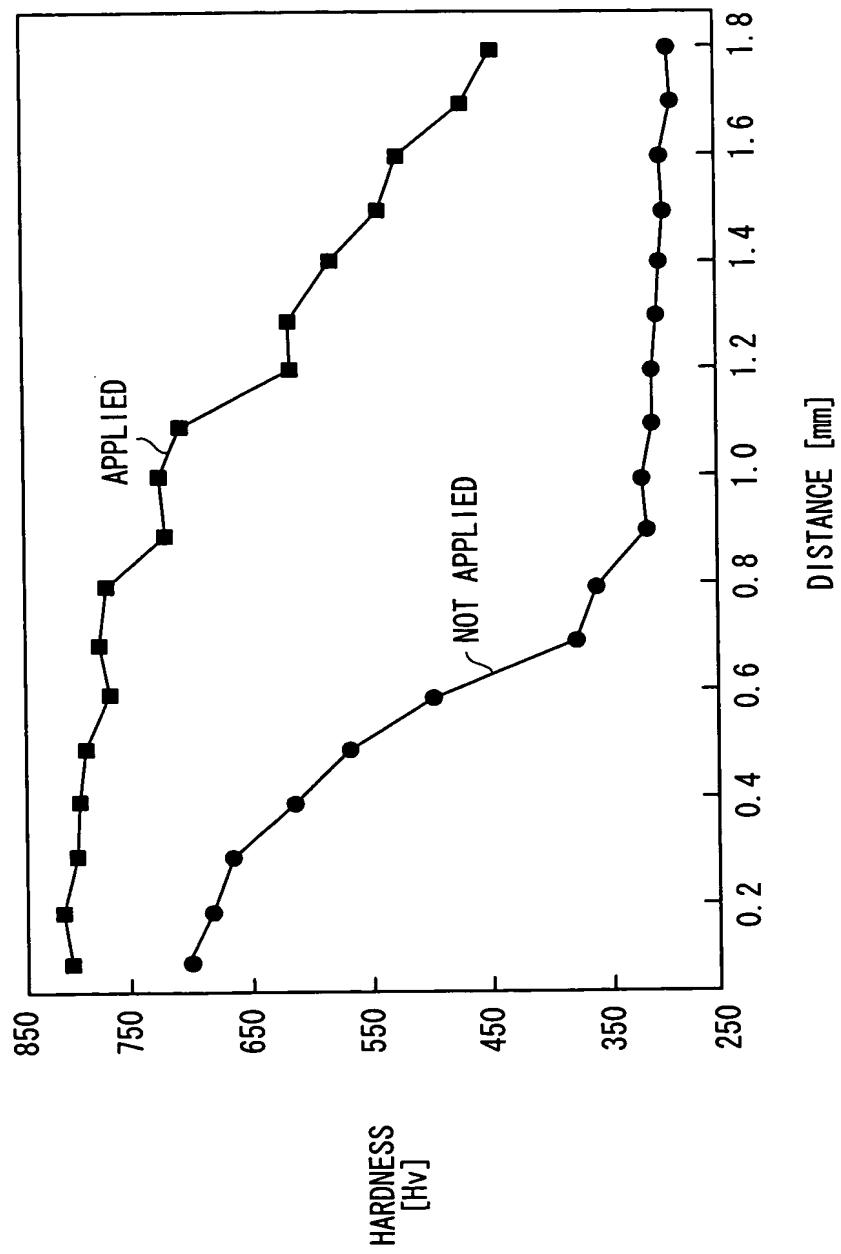


FIG. 5

	MEMBER	MATERIAL	THICKNESS OF COMPOUND LAYER OR NITRIDE LAYER (TIMES)	SURFACE HARDNESS (TIMES)	DEPTH OF DIFFUSION LAYER (TIMES)
GAS NITROCARBURIZING (600°C × 2hr)	CRANK SHAFT	S40C	1.6	1.2	1.4
		NCF3015	7.5	1.6	-
	ENGINE VALVE	NCF6018	5	1.9	-
		NCF440	2	1.6	-
		SKH51	1.1	1.1	-
		SUH11	2	1.2	-